



Docket No. NP-0009

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

Shubin JIANG et al.

Serial No.: 10/056,830

Filing Date: January 24, 2002

For: RARE-EARTH DOPED PHOSPHATE-  
GLASS SINGLE-MODE FIBER  
LASERS

Examiner: Dung (Michael) T Nguyen

Group Art Unit: 2874

*Fee only*

**INFORMATION DISCLOSURE STATEMENT COVER LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants have listed publication dates on the attached PTO-1449 based on information made available to the undersigned in a PCT Search Report for related application PCT/US03/01380.

U.S. Patent RE 35,962 teaches a single longitudinal mode fiber laser in which a pair of Bragg gratings are used to delimit the gain portion thereby forming a laser resonator. The Bragg gratings have a reflectivity profile that is a maximum at a central wavelength corresponding to a central longitudinal mode of the laser resonator, which combined with the fiber gain are such that lasing occurs only at the central longitudinal mode. The configuration assumes practical low-gain fiber lasers (col. 6, line 37). For example 2-4dB/m (col. 6, line 39). More specifically an erbium doped germanosilicate fiber composition is used (col. 5, lines 21-30). Ball does not teach single mode lasers with high gain Er:Yb co-doped phosphate glass in an optical resonant cavity of 5cm or less.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered..

Sincerely,

*[Signature]*  
Eric A. Gifford  
Registration No. 33,501

NP Photonics, Inc.  
9030 S. Rita Road, Suite 120  
Tucson, AZ 85747  
Phone: (520) 799-7400  
Fax: (520) 799-7403

07/23/2004 DBROW 00000001 502016 10056030

21 FEB 2005

100.00 00